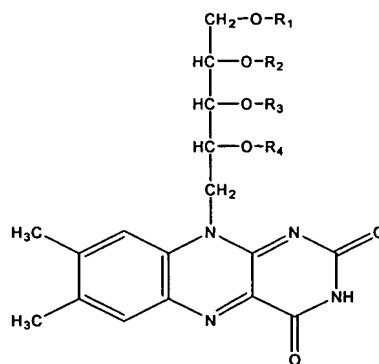


CLAIMS

1. A compound of riboflavin derivatives, comprising all ester derivatives of riboflavin or hydroxyl group of ribitol on the lateral chain of sulforiboflavin except the tetra-stearate ester, tetra-palmitate ester, tri-laurate ester, tetra-decanoate ester, tetra-butyrate ester, tetra-acetate ester, tetra-tryptophan ester, phosphate ester of riboflavin.

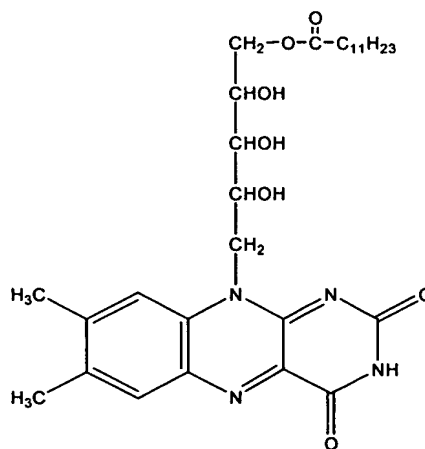
2. The compound according to claim 1, wherein the riboflavin derivatives are the mono-, di-, tri- or tetra-esters of the compound of the following Formula (I),

Formula (I)



in which the groups of R_1 , R_2 , R_3 , R_4 may be different, identical or independent to each other.

3. The compound according to claim 2, wherein the lauric acid monoester of the following Formula (II) is formed by R_1 being a lauroyl group, R_2 , R_3 and R_4 all being hydrogens of Formula (II)



Formula (II)

4. A synthesis process of preparation of the compound of claim 3, wherein lauroyl chloride is added drop wisely to riboflavin or sulphoriboflavin suspending
5 in polar organic solvent.

5. The process according to claim 4, wherein the polar organic solvent suspending riboflavin or sulphoriboflavin is pyridine or N, N-dimethylformamide.

10 6. A w/o suspending preparation using the compound of claim 3 as a main active constituent being mainly composed of ethyl oleate and the compound in Formula II.

7. The w/o suspending preparation according to claim 6, wherein camellia oil
15 is added and the ratio of weight and volume of each ingredient are as follows:

| | |
|--------------|-----------|
| Compound II | 50—150 mg |
| Ethyl oleate | 0.1—1 ml |
| Camellia oil | 0-1 ml |

20 8. The w/o suspending preparation according to claim 7, wherein the preferable ratio of weight and volume of each ingredient are as follows:

| | |
|------------------------|--------|
| Compound of Formula II | 150 mg |
| Ethyl oleate | 0.5 ml |
| Camellia oil | 0.5 ml |

25

9. An application of the compound of any one of claims 1 to 3, wherein the compound can be used in preparing the medicament for ariboflavinosis.

10. An application of the compound of any one of claims 1 to 3, wherein the
30 compound can be used in preparing the medicament for digestive tract catarrh caused by bone marrow transportation, leukemia or chemotherapy .

11. An application of the compound of any one of claims 1 to 3, wherein the
35 compound can be used in preparing the medicament for persistent oral ulcer.

12. An application of the compound of any one of claims 1 to 3, wherein the compound can be used in preparing the medicament for coronary heart disease, hypertension syndrome, arthritis and burn wound.